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21 August 2013

Mike Rigby
Waste Water Management, Inc.
2820 Dorr Ave, Ste 200
Fairfax, VA 22031
RE: EC Durango Pilot

Enclosed are the results of analyses for samples received by the laboratory on 08/08/13 17:00.
If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads 'Debbie Zufelt'.

Debbie Zufelt
Reports Manager

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. Our NELAP accreditation can be viewed at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water.

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water.



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Waste Water Management, Inc.
2820 Dorr Ave, Ste 200
Fairfax VA, 22031

Project: EC Durango Pilot
Project Name / Number: BLM
Project Manager: Mike Rigby

Reported:
08/21/13 09:40

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Raw	1308113-01	Water	08/08/13 14:00	08/08/13 17:00
2 Min	1308113-02	Water	08/08/13 14:00	08/08/13 17:00
5 Min	1308113-03	Water	08/08/13 14:30	08/08/13 17:00
5 Min #2	1308113-04	Water	08/08/13 14:30	08/08/13 17:00

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Debbie Zufelt, Reports Manager

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Waste Water Management, Inc.
2820 Dorr Ave, Ste 200
Fairfax VA, 22031

Project: EC Durango Pilot
Project Name / Number: BLM
Project Manager: Mike Rigby

Reported:
08/21/13 09:40

Raw**1308113-01 (Water)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Alkalinity, Bicarbonate*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Alkalinity, Carbonate*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Alkalinity, Hydroxide*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Alkalinity, Total*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Chloride	<10.0	10.0	5.00	mg/L	1	08/13/13	4500-Cl- C		JAW
Conductivity*	2390	10.0		uS/cm	1	08/08/13	2510 B		MJV
pH*	5.50			pH Units	1	08/08/13	EPA150.1		MJV
Phosphate as P, Total	0.0530	0.0500	0.0250	mg/L	1	08/16/13	EPA365.3		KLJ
Sulfate	1650	500	54.0	mg/L	50	08/16/13	4500-SO42- E		ABP
TDS*	2480	10.0		mg/L	1	08/14/13	EPA160.1		ABP

Total Recoverable Metals by ICP (E200.7)

Aluminum*	5.20	0.500	0.015	mg/L	10	08/15/13	EPA200.7		JGS
Iron*	158	0.500	0.040	mg/L	10	08/15/13	EPA200.7		JGS
Silica (SiO2)	33.3	10.7	7.39	mg/L	10	08/15/13	Calc		JGS
Silicon	15.6	5.00	3.45	mg/L	10	08/15/13	EPA200.7		JGS

Dissolved Metals by ICP

Aluminum*	2.62	0.050	0.001	mg/L	1	08/13/13	EPA200.7		JGS
Calcium*	446	5.00	0.020	mg/L	5	08/13/13	EPA200.7		JGS
Iron*	144	0.050	0.004	mg/L	1	08/13/13	EPA200.7		JGS
Magnesium*	32.1	1.00	0.019	mg/L	1	08/13/13	EPA200.7		JGS
Potassium*	1.28	1.00	0.364	mg/L	1	08/13/13	EPA200.7		JGS
Silica (SiO2)	36.0	1.07	0.739	mg/L	1	08/13/13	Calc		JGS
Silicon	16.8	0.500	0.345	mg/L	1	08/13/13	EPA200.7		JGS
Sodium*	8.39	1.00	0.004	mg/L	1	08/13/13	EPA200.7		JGS

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Project: EC Durango Pilot
Project Name / Number: BLM
Project Manager: Mike Rigby

Reported:
08/21/13 09:40

Raw**1308113-01 (Water)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Total Recoverable Metals by ICPMS (E200.8)

Cadmium*	0.0025	0.0010	0.0004	mg/L	10	08/14/13	EPA200.8		JGS
Copper*	0.0106	0.0100	0.0013	mg/L	10	08/14/13	EPA200.8		JGS
Lead*	<0.0050	0.0050	0.0003	mg/L	10	08/14/13	EPA200.8		JGS
Manganese*	46.2	0.0050	0.0042	mg/L	10	08/14/13	EPA200.8		JGS
Zinc*	27.5	0.0500	0.0063	mg/L	10	08/14/13	EPA200.8		JGS

Dissolved Metals by ICPMS

Cadmium*	0.0027	0.0010	0.0004	mg/L	10	08/13/13	EPA200.8		JGS
Copper*	0.0108	0.0010	0.0001	mg/L	10	08/13/13	EPA200.8		JGS
Lead*	<0.0050	0.0050	0.0003	mg/L	10	08/13/13	EPA200.8		JGS
Manganese*	50.2	0.0050	0.0042	mg/L	10	08/13/13	EPA200.8		JGS
Zinc*	16.9	0.0100	0.0013	mg/L	10	08/13/13	EPA200.8		JGS

Total Mercury by CVAA

Mercury*	<0.0002	0.0002	0.00002	mg/L	1	08/16/13	245.1		JGS
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Dissolved Mercury by CVAA

Mercury*	<0.0002	0.0002	0.00002	mg/L	1	08/16/13	245.1		JGS
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Project: EC Durango Pilot
Project Name / Number: BLM
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Reported:
08/21/13 09:40

2 Min**1308113-02 (Water)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Alkalinity, Bicarbonate*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Alkalinity, Carbonate*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Alkalinity, Hydroxide*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Alkalinity, Total*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Chloride	<10.0	10.0	5.00	mg/L	1	08/13/13	4500-Cl- C		JAW
Conductivity*	2270	10.0		uS/cm	1	08/08/13	2510 B		MJV
pH*	4.79			pH Units	1	08/08/13	EPA150.1		MJV
Phosphate as P, Total	<0.0500	0.0500	0.0250	mg/L	1	08/16/13	EPA365.3		KLJ
Sulfate	1550	500	54.0	mg/L	50	08/16/13	4500-SO42- E		ABP
TDS*	2280	10.0		mg/L	1	08/14/13	EPA160.1		ABP

Total Recoverable Metals by ICP (E200.7)

Aluminum*	66.0	0.500	0.015	mg/L	10	08/15/13	EPA200.7		JGS
Iron*	214	0.500	0.040	mg/L	10	08/15/13	EPA200.7		JGS
Silica (SiO2)	42.1	10.7	7.39	mg/L	10	08/15/13	Calc		JGS
Silicon	19.7	5.00	3.45	mg/L	10	08/15/13	EPA200.7		JGS

Dissolved Metals by ICP

Aluminum*	6.52	0.050	0.001	mg/L	1	08/13/13	EPA200.7		JGS
Calcium*	416	5.00	0.020	mg/L	5	08/13/13	EPA200.7		JGS
Iron*	127	0.050	0.004	mg/L	1	08/13/13	EPA200.7		JGS
Magnesium*	31.2	1.00	0.019	mg/L	1	08/13/13	EPA200.7		JGS
Potassium*	<1.00	1.00	0.364	mg/L	1	08/13/13	EPA200.7		JGS
Silica (SiO2)	32.8	1.07	0.739	mg/L	1	08/13/13	Calc		JGS
Silicon	15.4	0.500	0.345	mg/L	1	08/13/13	EPA200.7		JGS
Sodium*	8.20	1.00	0.004	mg/L	1	08/13/13	EPA200.7		JGS

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Project: EC Durango Pilot
Project Name / Number: BLM
Project Manager: Mike Rigby

Reported:
08/21/13 09:40

2 Min

1308113-02 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Total Recoverable Metals by ICPMS (E200.8)

Cadmium*	0.0021	0.0010	0.0004	mg/L	10	08/14/13	EPA200.8		JGS
Copper*	0.100	0.0100	0.0013	mg/L	10	08/14/13	EPA200.8		JGS
Lead*	0.0419	0.0050	0.0003	mg/L	10	08/14/13	EPA200.8		JGS
Manganese*	46.5	0.0050	0.0042	mg/L	10	08/14/13	EPA200.8		JGS
Zinc*	30.9	0.0500	0.0063	mg/L	10	08/14/13	EPA200.8		JGS

Dissolved Metals by ICPMS

Cadmium*	0.0027	0.0010	0.0004	mg/L	10	08/13/13	EPA200.8		JGS
Copper*	0.0127	0.0010	0.0001	mg/L	10	08/13/13	EPA200.8		JGS
Lead*	0.0071	0.0050	0.0003	mg/L	10	08/13/13	EPA200.8		JGS
Manganese*	42.8	0.0050	0.0042	mg/L	10	08/13/13	EPA200.8		JGS
Zinc*	15.5	0.0100	0.0013	mg/L	10	08/13/13	EPA200.8		JGS

Total Mercury by CVAA

Mercury*	<0.0002	0.0002	0.00002	mg/L	1	08/16/13	245.1		JGS
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Dissolved Mercury by CVAA

Mercury*	<0.0002	0.0002	0.00002	mg/L	1	08/16/13	245.1		JGS
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Project: EC Durango Pilot
Project Name / Number: BLM
Project Manager: Mike Rigby

Reported:
08/21/13 09:40

5 Min**1308113-03 (Water)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Alkalinity, Bicarbonate*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Alkalinity, Carbonate*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Alkalinity, Hydroxide*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Alkalinity, Total*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Chloride	<10.0	10.0	5.00	mg/L	1	08/13/13	4500-Cl- C		JAW
Conductivity*	1980	10.0		uS/cm	1	08/08/13	2510 B		MJV
pH*	4.97			pH Units	1	08/08/13	EPA150.1		MJV
Phosphate as P, Total	<0.0500	0.0500	0.0250	mg/L	1	08/16/13	EPA365.3		KLJ
Sulfate	1340	200	21.6	mg/L	20	08/16/13	4500-SO42- E		ABP
TDS*	2120	10.0		mg/L	1	08/14/13	EPA160.1		ABP

Total Recoverable Metals by ICP (E200.7)

Aluminum*	201	0.500	0.015	mg/L	10	08/15/13	EPA200.7		JGS
Iron*	155	0.500	0.040	mg/L	10	08/15/13	EPA200.7		JGS
Silica (SiO2)	32.7	10.7	7.39	mg/L	10	08/15/13	Calc		JGS
Silicon	15.3	5.00	3.45	mg/L	10	08/15/13	EPA200.7		JGS

Dissolved Metals by ICP

Aluminum*	2.44	0.050	0.001	mg/L	1	08/13/13	EPA200.7		JGS
Calcium*	362	5.00	0.020	mg/L	5	08/13/13	EPA200.7		JGS
Iron*	109	0.050	0.004	mg/L	1	08/13/13	EPA200.7		JGS
Magnesium*	27.8	1.00	0.019	mg/L	1	08/13/13	EPA200.7		JGS
Potassium*	1.58	1.00	0.364	mg/L	1	08/13/13	EPA200.7		JGS
Silica (SiO2)	23.5	1.07	0.739	mg/L	1	08/13/13	Calc		JGS
Silicon	11.0	0.500	0.345	mg/L	1	08/13/13	EPA200.7		JGS
Sodium*	8.49	1.00	0.004	mg/L	1	08/13/13	EPA200.7		JGS

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Project: EC Durango Pilot
Project Name / Number: BLM
Project Manager: Mike Rigby

Reported:
08/21/13 09:40

5 Min

1308113-03 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Total Recoverable Metals by ICPMS (E200.8)

Cadmium*	0.0018	0.0010	0.0004	mg/L	10	08/14/13	EPA200.8		JGS
Copper*	0.0410	0.0100	0.0013	mg/L	10	08/14/13	EPA200.8		JGS
Lead*	0.0260	0.0050	0.0003	mg/L	10	08/14/13	EPA200.8		JGS
Manganese*	39.5	0.0050	0.0042	mg/L	10	08/14/13	EPA200.8		JGS
Zinc*	24.6	0.0500	0.0063	mg/L	10	08/14/13	EPA200.8		JGS

Dissolved Metals by ICPMS

Cadmium*	0.0022	0.0010	0.0004	mg/L	10	08/13/13	EPA200.8		JGS
Copper*	0.0056	0.0010	0.0001	mg/L	10	08/13/13	EPA200.8		JGS
Lead*	0.0072	0.0050	0.0003	mg/L	10	08/13/13	EPA200.8		JGS
Manganese*	40.9	0.0050	0.0042	mg/L	10	08/13/13	EPA200.8		JGS
Zinc*	12.4	0.0100	0.0013	mg/L	10	08/13/13	EPA200.8		JGS

Total Mercury by CVAA

Mercury*	<0.0002	0.0002	0.00002	mg/L	1	08/16/13	245.1		JGS
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Dissolved Mercury by CVAA

Mercury*	<0.0002	0.0002	0.00002	mg/L	1	08/16/13	245.1		JGS
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2820 Dorr Ave, Ste 200
Fairfax VA, 22031

Project: EC Durango Pilot
Project Name / Number: BLM
Project Manager: Mike Rigby

Reported:
08/21/13 09:40

5 Min #2**1308113-04 (Water)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Alkalinity, Bicarbonate*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Alkalinity, Carbonate*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Alkalinity, Hydroxide*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Alkalinity, Total*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Chloride	<10.0	10.0	5.00	mg/L	1	08/13/13	4500-Cl- C		JAW
Conductivity*	1990	10.0		uS/cm	1	08/08/13	2510 B		MJV
pH*	5.00			pH Units	1	08/08/13	EPA150.1		MJV
Phosphate as P, Total	0.700	0.0500	0.0250	mg/L	1	08/16/13	EPA365.3	M5	KLJ
Sulfate	1340	200	21.6	mg/L	20	08/16/13	4500-SO42- E		ABP
TDS*	2080	10.0		mg/L	1	08/14/13	EPA160.1		ABP

Total Recoverable Metals by ICP (E200.7)

Aluminum*	148	0.500	0.015	mg/L	10	08/15/13	EPA200.7		JGS
Iron*	134	0.500	0.040	mg/L	10	08/15/13	EPA200.7		JGS
Silica (SiO2)	28.6	10.7	7.39	mg/L	10	08/15/13	Calc		JGS
Silicon	13.4	5.00	3.45	mg/L	10	08/15/13	EPA200.7		JGS

Dissolved Metals by ICP

Aluminum*	2.06	0.050	0.001	mg/L	1	08/13/13	EPA200.7		JGS
Calcium*	365	5.00	0.020	mg/L	5	08/13/13	EPA200.7		JGS
Iron*	104	0.050	0.004	mg/L	1	08/13/13	EPA200.7		JGS
Magnesium*	27.2	1.00	0.019	mg/L	1	08/13/13	EPA200.7		JGS
Potassium*	1.05	1.00	0.364	mg/L	1	08/13/13	EPA200.7		JGS
Silica (SiO2)	22.8	1.07	0.739	mg/L	1	08/13/13	Calc		JGS
Silicon	10.7	0.500	0.345	mg/L	1	08/13/13	EPA200.7		JGS
Sodium*	8.61	1.00	0.004	mg/L	1	08/13/13	EPA200.7		JGS

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Project: EC Durango Pilot
Project Name / Number: BLM
Project Manager: Mike Rigby

Reported:
08/21/13 09:40

5 Min #2**1308113-04 (Water)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Total Recoverable Metals by ICPMS (E200.8)

Cadmium*	0.0016	0.0010	0.0004	mg/L	10	08/14/13	EPA200.8		JGS
Copper*	0.0245	0.0100	0.0013	mg/L	10	08/14/13	EPA200.8		JGS
Lead*	0.0122	0.0050	0.0003	mg/L	10	08/14/13	EPA200.8		JGS
Manganese*	39.2	0.0050	0.0042	mg/L	10	08/14/13	EPA200.8		JGS
Zinc*	21.0	0.0500	0.0063	mg/L	10	08/14/13	EPA200.8		JGS

Dissolved Metals by ICPMS

Cadmium*	0.0017	0.0010	0.0004	mg/L	10	08/13/13	EPA200.8		JGS
Copper*	0.0039	0.0010	0.0001	mg/L	10	08/13/13	EPA200.8		JGS
Lead*	<0.0050	0.0050	0.0003	mg/L	10	08/13/13	EPA200.8		JGS
Manganese*	38.7	0.0050	0.0042	mg/L	10	08/13/13	EPA200.8		JGS
Zinc*	11.4	0.0100	0.0013	mg/L	10	08/13/13	EPA200.8		JGS

Total Mercury by CVAA

Mercury*	<0.0002	0.0002	0.00002	mg/L	1	08/16/13	245.1		JGS
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Dissolved Mercury by CVAA

Mercury*	<0.0002	0.0002	0.00002	mg/L	1	08/16/13	245.1		JGS
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Waste Water Management, Inc.
2820 Dorr Ave, Ste 200
Fairfax VA, 22031

Project: EC Durango Pilot
Project Name / Number: BLM
Project Manager: Mike Rigby

Reported:
08/21/13 09:40

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B308110 - General Prep - Wet Chem

Duplicate (B308110-DUP1)		Source: 1308102-01		Prepared & Analyzed: 08/08/13						
Conductivity	13400	10.0	uS/cm		13300			1.20	20	
Reference (B308110-SRM2)				Prepared & Analyzed: 08/08/13						
Conductivity	1530		uS/cm	1500		102	94-106			

Batch B308114 - General Prep - Wet Chem

Duplicate (B308114-DUP2)		Source: 1308113-01		Prepared & Analyzed: 08/08/13						
pH	5.55		pH Units		5.50			0.905	20	
Reference (B308114-SRM1)				Prepared & Analyzed: 08/08/13						
pH	8.71		pH Units	9.05		96.2	90-110			

Batch B308123 - General Prep - Wet Chem

Blank (B308123-BLK1)				Prepared & Analyzed: 08/13/13						
Chloride	ND	10.0	mg/L							
LCS (B308123-BS1)				Prepared & Analyzed: 08/13/13						
Chloride	98.0	10.0	mg/L	100		98.0	85-115			
LCS Dup (B308123-BSD1)				Prepared & Analyzed: 08/13/13						
Chloride	99.0	10.0	mg/L	100		99.0	85-115	1.02	20	

Batch B308124 - General Prep - Wet Chem

Blank (B308124-BLK1)				Prepared: 08/12/13 Analyzed: 08/13/13						
Chloride	ND	10.0	mg/L							

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Waste Water Management, Inc.
2820 Dorr Ave, Ste 200
Fairfax VA, 22031

Project: EC Durango Pilot
Project Name / Number: BLM
Project Manager: Mike Rigby

Reported:
08/21/13 09:40

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B308124 - General Prep - Wet Chem

LCS (B308124-BS1)

Prepared: 08/12/13 Analyzed: 08/13/13

Chloride	97.0	10.0	mg/L	100	97.0	85-115			
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LCS Dup (B308124-BSD1)

Prepared: 08/12/13 Analyzed: 08/13/13

Chloride	98.0	10.0	mg/L	100	98.0	85-115	1.03	20	
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Batch B308130 - General Prep - Wet Chem

Blank (B308130-BLK1)

Prepared & Analyzed: 08/12/13

Alkalinity, Total	ND	10.0	mg/L						
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LCS (B308130-BS1)

Prepared & Analyzed: 08/12/13

Alkalinity, Total	104	10.0	mg/L	100	104	85-115			
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LCS Dup (B308130-BSD1)

Prepared & Analyzed: 08/12/13

Alkalinity, Total	103	10.0	mg/L	100	103	85-115	0.966	20	
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Batch B308141 - General Prep - Wet Chem

Blank (B308141-BLK1)

Prepared: 08/13/13 Analyzed: 08/14/13

TDS	ND	10.0	mg/L						
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Duplicate (B308141-DUP2)

Source: 1308113-01

Prepared: 08/13/13 Analyzed: 08/14/13

TDS	2420	10.0	mg/L	2480	2.45	20			
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Reference (B308141-SRM1)

Prepared: 08/13/13 Analyzed: 08/14/13

TDS	2740	10.0	mg/L		85-115				
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Waste Water Management, Inc.
2820 Dorr Ave, Ste 200
Fairfax VA, 22031

Project: EC Durango Pilot
Project Name / Number: BLM
Project Manager: Mike Rigby

Reported:
08/21/13 09:40

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B308167 - General Prep - Wet Chem

Blank (B308167-BLK1)

Prepared & Analyzed: 08/16/13

Sulfate	ND	10.0	mg/L
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LCS (B308167-BS1)

Prepared & Analyzed: 08/16/13

Sulfate	47.0	10.0	mg/L	50.0	94.0	85-115
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LCS Dup (B308167-BSD1)

Prepared & Analyzed: 08/16/13

Sulfate	47.0	10.0	mg/L	50.0	94.0	85-115	0.00	20
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Batch B308181 - General Prep - Wet Chem

Blank (B308181-BLK1)

Prepared & Analyzed: 08/16/13

Phosphate as P, Total	ND	0.0500	mg/L
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LCS (B308181-BS1)

Prepared & Analyzed: 08/16/13

Phosphate as P, Total	0.504	0.0500	mg/L	0.500	101	85-115
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LCS Dup (B308181-BSD1)

Prepared & Analyzed: 08/16/13

Phosphate as P, Total	0.502	0.0500	mg/L	0.500	100	85-115	0.398	20
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2820 Dorr Ave, Ste 200
Fairfax VA, 22031

Project: EC Durango Pilot
Project Name / Number: BLM
Project Manager: Mike Rigby

Reported:
08/21/13 09:40

Total Recoverable Metals by ICP (E200.7) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B308153 - EPA 200.2

Blank (B308153-BLK1)

Prepared & Analyzed: 08/15/13

Aluminum	ND	0.050	mg/L
Iron	ND	0.050	mg/L
Silicon	ND	0.500	mg/L

LCS (B308153-BS1)

Prepared & Analyzed: 08/15/13

Aluminum	4.38	0.050	mg/L	4.00	109	85-115
Iron	4.39	0.050	mg/L	4.00	110	85-115
Silicon	3.93	0.500	mg/L	4.00	98.3	85-115

LCS Dup (B308153-BSD1)

Prepared & Analyzed: 08/15/13

Aluminum	4.41	0.050	mg/L	4.00	110	85-115	0.851	20
Iron	4.39	0.050	mg/L	4.00	110	85-115	0.0417	20
Silicon	3.96	0.500	mg/L	4.00	99.0	85-115	0.712	20

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2820 Dorr Ave, Ste 200
Fairfax VA, 22031

Project: EC Durango Pilot
Project Name / Number: BLM
Project Manager: Mike Rigby

Reported:
08/21/13 09:40

Dissolved Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B308103 - Dissolved Metals, E200.7/E200.8

Blank (B308103-BLK1)

Prepared: 08/12/13 Analyzed: 08/13/13

Aluminum	ND	0.050	mg/L
Calcium	ND	1.00	mg/L
Iron	ND	0.050	mg/L
Magnesium	ND	1.00	mg/L
Potassium	ND	1.00	mg/L
Silicon	ND	0.500	mg/L
Sodium	ND	1.00	mg/L

LCS (B308103-BS1)

Prepared: 08/12/13 Analyzed: 08/13/13

Aluminum	5.15	0.050	mg/L	5.00	103	85-115
Calcium	5.09	1.00	mg/L	5.00	102	85-115
Iron	5.16	0.050	mg/L	5.00	103	85-115
Magnesium	26.7	1.00	mg/L	25.0	107	85-115
Potassium	10.0	1.00	mg/L	10.0	100	85-115
Silicon	4.92	0.500	mg/L	5.00	98.3	85-115
Sodium	8.01	1.00	mg/L	8.10	98.9	85-115

LCS Dup (B308103-BSD1)

Prepared: 08/12/13 Analyzed: 08/13/13

Aluminum	5.16	0.050	mg/L	5.00	103	85-115	0.193	20
Calcium	5.10	1.00	mg/L	5.00	102	85-115	0.177	20
Iron	5.18	0.050	mg/L	5.00	104	85-115	0.232	20
Magnesium	26.7	1.00	mg/L	25.0	107	85-115	0.0637	20
Potassium	10.0	1.00	mg/L	10.0	100	85-115	0.121	20
Silicon	4.95	0.500	mg/L	5.00	99.1	85-115	0.742	20
Sodium	8.03	1.00	mg/L	8.10	99.2	85-115	0.239	20

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2820 Dorr Ave, Ste 200
Fairfax VA, 22031

Project: EC Durango Pilot
Project Name / Number: BLM
Project Manager: Mike Rigby

Reported:
08/21/13 09:40

Total Recoverable Metals by ICPMS (E200.8) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B308133 - EPA 200.2M

Blank (B308133-BLK1)

Prepared: 08/13/13 Analyzed: 08/14/13

Cadmium	ND	0.0001	mg/L							
Copper	0.0007	0.0001	mg/L							B3
Lead	ND	0.0005	mg/L							
Manganese	ND	0.0005	mg/L							
Zinc	0.0042	0.0010	mg/L							B3

LCS (B308133-BS1)

Prepared: 08/13/13 Analyzed: 08/14/13

Cadmium	0.0508	0.0001	mg/L	0.0500		102	85-115			
Copper	0.0503	0.0001	mg/L	0.0500		101	85-115			
Lead	0.0481	0.0005	mg/L	0.0500		96.2	85-115			
Manganese	0.0461	0.0005	mg/L	0.0500		92.2	85-115			
Zinc	0.0576	0.0010	mg/L	0.0500		115	75-125			

LCS Dup (B308133-BSD1)

Prepared: 08/13/13 Analyzed: 08/14/13

Cadmium	0.0514	0.0001	mg/L	0.0500		103	85-115	1.23	20	
Copper	0.0516	0.0001	mg/L	0.0500		103	85-115	2.60	20	
Lead	0.0495	0.0005	mg/L	0.0500		98.9	85-115	2.85	20	
Manganese	0.0473	0.0005	mg/L	0.0500		94.6	85-115	2.67	20	
Zinc	0.0510	0.0010	mg/L	0.0500		102	75-125	12.2	20	

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2820 Dorr Ave, Ste 200
Fairfax VA, 22031

Project: EC Durango Pilot
Project Name / Number: BLM
Project Manager: Mike Rigby

Reported:
08/21/13 09:40

Dissolved Metals by ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B308121 - Dissolved Metals, E200.7/E200.8

Blank (B308121-BLK1)

Prepared & Analyzed: 08/13/13

Cadmium	ND	0.0001	mg/L							
Copper	ND	0.0001	mg/L							
Lead	ND	0.0005	mg/L							
Manganese	ND	0.0005	mg/L							
Zinc	ND	0.0010	mg/L							

LCS (B308121-BS1)

Prepared & Analyzed: 08/13/13

Cadmium	0.0517	0.0001	mg/L	0.0500		103	85-115			
Copper	0.0536	0.0001	mg/L	0.0500		107	85-115			
Lead	0.0499	0.0005	mg/L	0.0500		99.9	85-115			
Manganese	0.0540	0.0005	mg/L	0.0500		108	85-115			
Zinc	0.0493	0.0010	mg/L	0.0500		98.6	85-115			

LCS Dup (B308121-BSD1)

Prepared & Analyzed: 08/13/13

Cadmium	0.0518	0.0001	mg/L	0.0500		104	85-115	0.204	20	
Copper	0.0535	0.0001	mg/L	0.0500		107	85-115	0.104	20	
Lead	0.0489	0.0005	mg/L	0.0500		97.8	85-115	2.13	20	
Manganese	0.0536	0.0005	mg/L	0.0500		107	85-115	0.737	20	
Zinc	0.0518	0.0010	mg/L	0.0500		104	85-115	5.04	20	

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2820 Dorr Ave, Ste 200
Fairfax VA, 22031

Project: EC Durango Pilot
Project Name / Number: BLM
Project Manager: Mike Rigby

Reported:
08/21/13 09:40

Total Mercury by CVAA - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B308163 - EPA 245.1/7470

Blank (B308163-BLK1)

Prepared & Analyzed: 08/16/13

Mercury ND 0.0002 mg/L

LCS (B308163-BS1)

Prepared & Analyzed: 08/16/13

Mercury 0.0021 0.0002 mg/L 0.00200 104 85-115

LCS Dup (B308163-BSD1)

Prepared & Analyzed: 08/16/13

Mercury 0.0021 0.0002 mg/L 0.00200 103 85-115 1.01 20

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2820 Dorr Ave, Ste 200
Fairfax VA, 22031

Project: EC Durango Pilot
Project Name / Number: BLM
Project Manager: Mike Rigby

Reported:
08/21/13 09:40

Dissolved Mercury by CVAA - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B308162 - EPA 245.1/7470

Blank (B308162-BLK1)

Prepared & Analyzed: 08/16/13

Mercury	ND	0.0002	mg/L
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LCS (B308162-BS1)

Prepared & Analyzed: 08/16/13

Mercury	0.0021	0.0002	mg/L	0.00200	104	85-115
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LCS Dup (B308162-BSD1)

Prepared & Analyzed: 08/16/13

Mercury	0.0021	0.0002	mg/L	0.00200	103	85-115	1.01	20
---------	--------	--------	------	---------	-----	--------	------	----

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2820 Dorr Ave, Ste 200
Fairfax VA, 22031

Project: EC Durango Pilot
Project Name / Number: BLM
Project Manager: Mike Rigby

Reported:
08/21/13 09:40

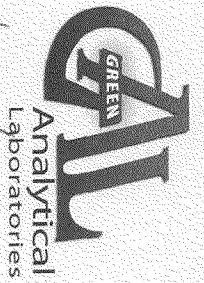
Notes and Definitions

M5	Sample was chosen for matrix spike. Spike recovery less than 50%, possible matrix interference in sample.
B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis *Results reported on as received basis unless designated as dry.
RPD	Relative Percent Difference
LCS	Laboratory Control Sample (Blank Spike)
RL	Report Limit
MDL	Method Detection Limit

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CHAIN OF CUSTODY RECORD

Page ____ of ____

Client: Waste Water Management

Contact: David Risky

Address: 2820 Boyd Avenue #200

City/State: Fairfax VA 22031

Phone Number: 703 846 0098

Email: david.risky@wumi.net

NOTES:

- 1) Ensure proper container packaging.
- 2) Ship samples promptly following collection.
- 3) Designate Sample Reject Disposition.

Table 1. - Matrix Type

1 = Surface Water, 2 = Ground Water
3 = Soil/Sediment, 4 = Prod. W., 5 = Oil
6 = Waste, 7 = Other (Specify) 7

FOR GAL USE ONLY

GAL JOB #

1308-113

Project Name:

Samplers Signature: David Risky

Lab Name: Green Analytical Laboratories (970) 247-4220 FAX (970) 247-4227

Address: 75 Suttle Street, Durango, CO 81303 www.greenanalytical.com

Analyses Required

Sample ID

Date

Time

Collected by: (Init.)

Matrix Type From Table 1

No. of Containers

Sample Filtered ? Y/N

Unpreserved (Ice Only)

HNO3

HCL

H2SO4

NAOH

Other (Specify)

See Attached

Comments

#18
25-27.3°

*Add in line
drainage
American
Tunnel

Sample ID	Date	Time	Collected by: (Init.)	Matrix Type From Table 1	No. of Containers	Sample Filtered ? Y/N	Unpreserved (Ice Only)	Preservative(s)				Received by:	Date:	Time:
								HNO3	HCL	H2SO4	NAOH			
1. <u>Raw</u>	<u>8/8/13</u>	<u>1400</u>	<u>gpr</u>	<u>7</u>	<u>3</u>		<u>✓</u>					<u>✓</u>		
2. <u>Mu</u>	<u>8/8/13</u>	<u>1400</u>	<u>gpr</u>	<u>3</u>	<u>3</u>		<u>✓</u>					<u>✓</u>		
3. <u>5 Mu</u>	<u>8/8/13</u>	<u>1430</u>	<u>gpr</u>	<u>3</u>	<u>3</u>		<u>✓</u>					<u>✓</u>		
4. <u>5 Mu #2</u>	<u>8/8/13</u>	<u>1430</u>	<u>gpr</u>	<u>3</u>	<u>3</u>		<u>✓</u>					<u>✓</u>		
5.														
6.														
7.														
8.														
9.														
10.														
Relinquished by:	<u>David Risky</u>													
Relinquished by:	<u>David Risky</u>													
Relinquished by:														

Project Information

Waste Water Management, Inc.

2820 Dorr Ave, Ste 200
Fairfax, VA 22031

Phone: (703) 846-0098
Fax: -

8/6/2013

Laboratory PM: Debbie Zufelt

Project Name: EC Durango Pilot
Project Number: BLM
Client PM: Mike Rigby
Comments:

Invoice To: Waste Water Management, Inc.
Invoice Bid: BLM
Invoice Manager: Mike Rigby

Analysis	Comment
Alkalinity, Bicarbonate	
Alkalinity, Carbonate	
Alkalinity, Hydroxide	
Alkalinity, Total	
Aluminum Dissolved by ICP	
Aluminum Total Recoverable by	
Cadmium Dissolved by ICPMS	
Cadmium Total Recoverable by I	
Calcium Dissolved by ICP	
Chloride	
Copper Dissolved by ICPMS	
Copper Total Recoverable by ICF	
Iron Dissolved by ICP	
Iron Total Recoverable by ICP	
Lead Dissolved by ICPMS	
Lead Total Recoverable by ICPM	
Magnesium Dissolved by ICP	
Manganese Dissolved by ICPMS	
Manganese Total Recoverable by	
Mercury Dissolved by CVAA	
Mercury Total by CVAA	
Potassium Dissolved by ICP	
Sodium Dissolved by ICP	
Sulfate	
Zinc Dissolved by ICPMS	
Zinc Total Recoverable by ICPM	

Alkalinity, Bicarbonate
Alkalinity, Carbonate
Alkalinity, Hydroxide
Alkalinity, Total
Aluminum Dissolved by ICP
Aluminum Total Recoverable by
Cadmium Dissolved by ICPMS
Cadmium Total Recoverable by I
Calcium Dissolved by ICP
Chloride
Copper Dissolved by ICPMS
Copper Total Recoverable by ICF
Iron Dissolved by ICP
Iron Total Recoverable by ICP
Lead Dissolved by ICPMS
Lead Total Recoverable by ICPM
Magnesium Dissolved by ICP
Manganese Dissolved by ICPMS
Manganese Total Recoverable by
Mercury Dissolved by CVAA
Mercury Total by CVAA
Potassium Dissolved by ICP
Sodium Dissolved by ICP
Sulfate
Zinc Dissolved by ICPMS
Zinc Total Recoverable by ICPM

200-2

Just Dissolved CATS
per Mike Rigby

Add: Conductivity, TDS, pH, ~~Mn~~, ~~H₂S~~, Silica, ~~SO₄~~, Ca, K
Mg, PO₄